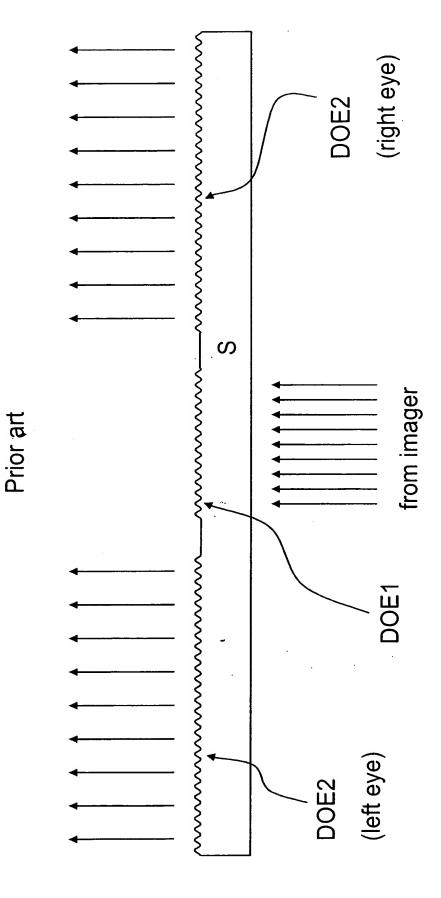
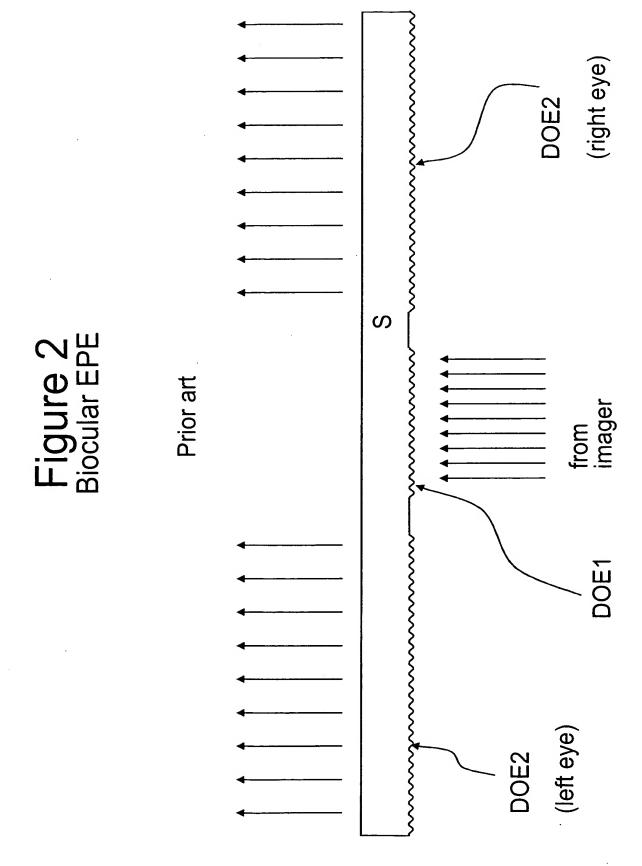
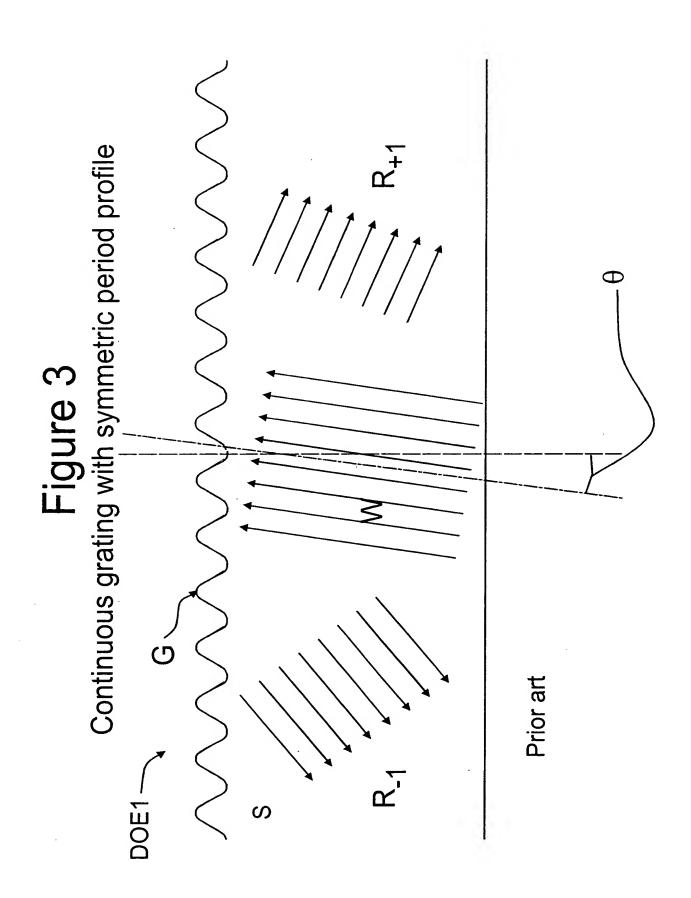
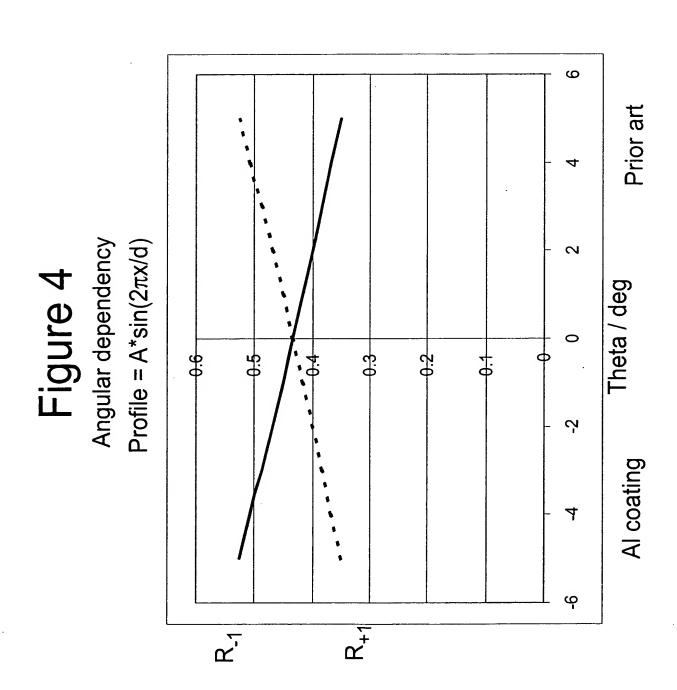


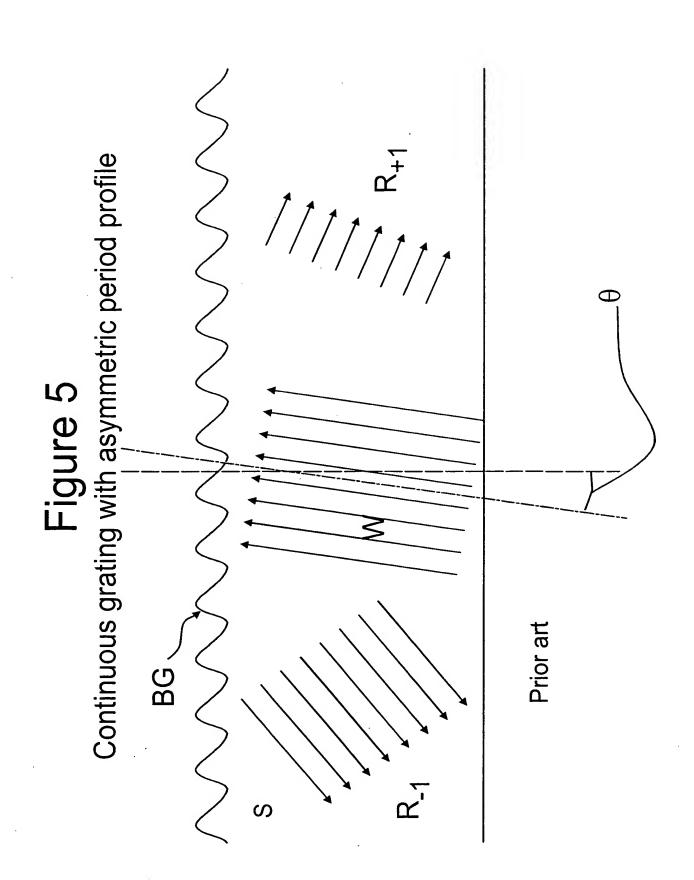
## Figure 1 Biocular EPE

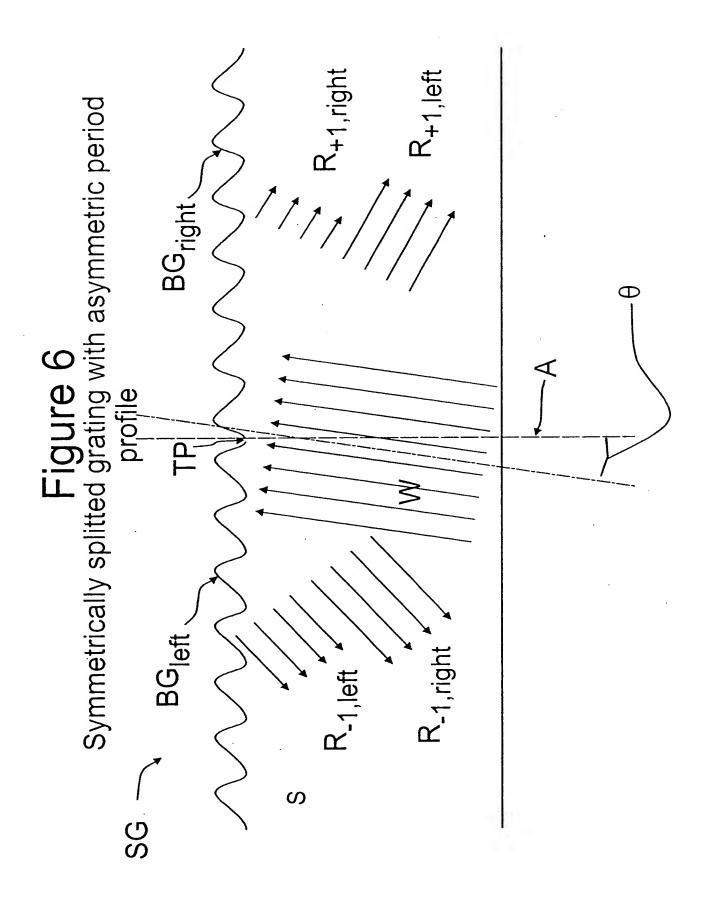


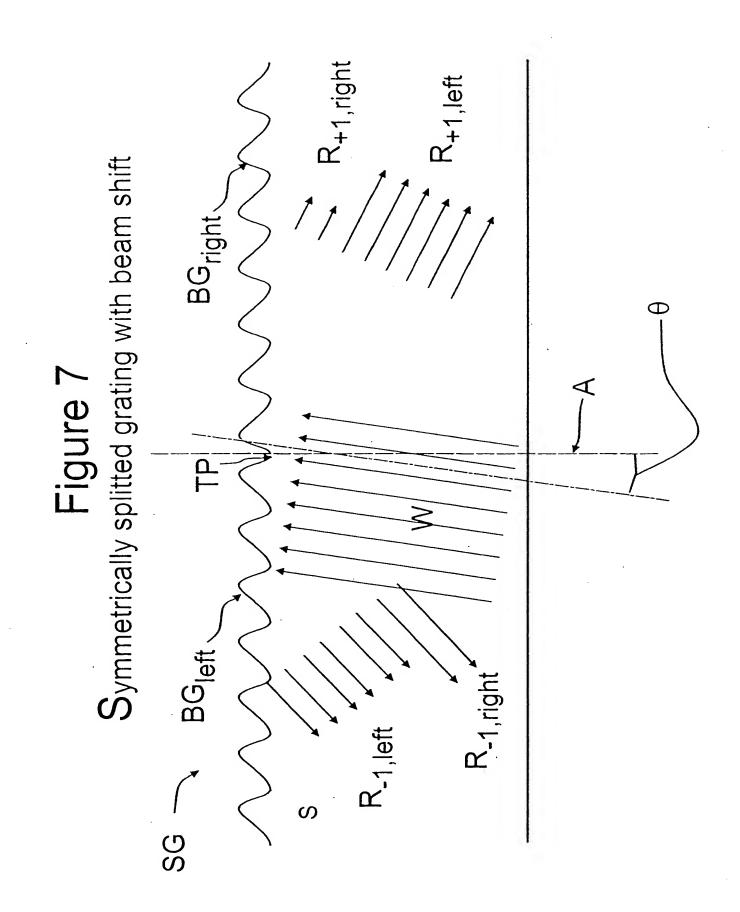


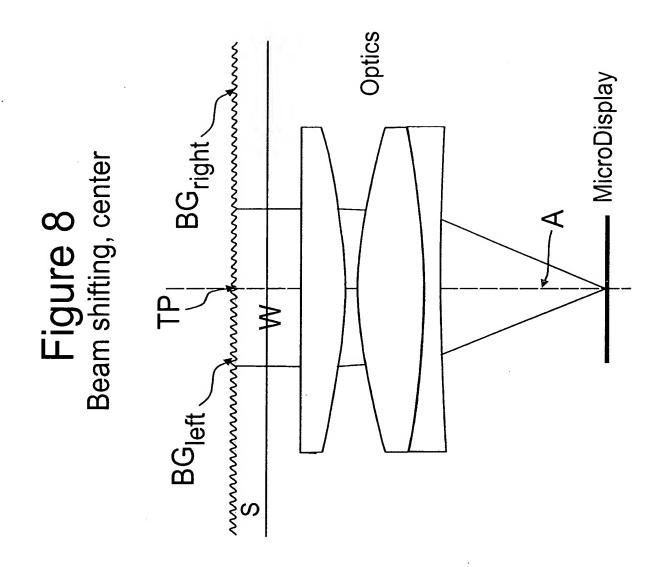


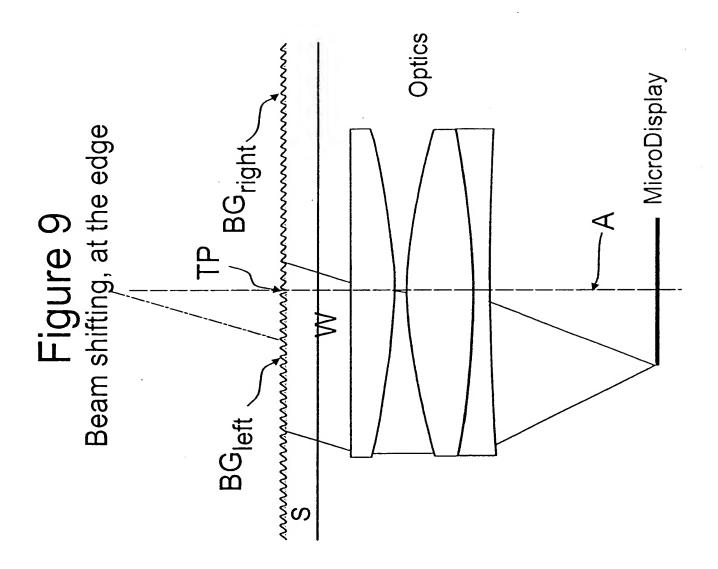












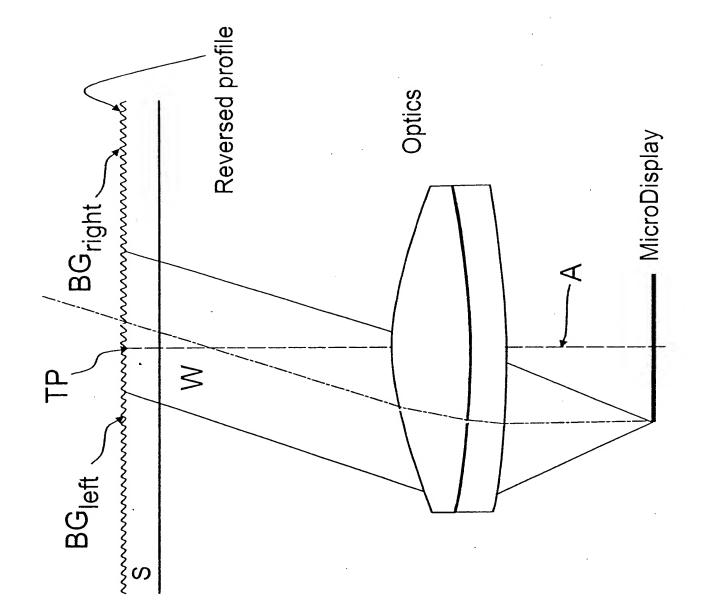
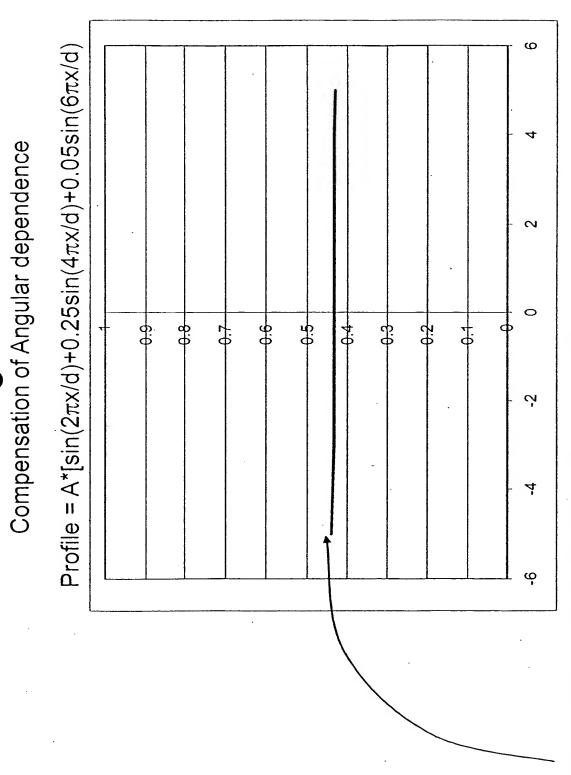


Figure 10
Beam shifting
alternative setup

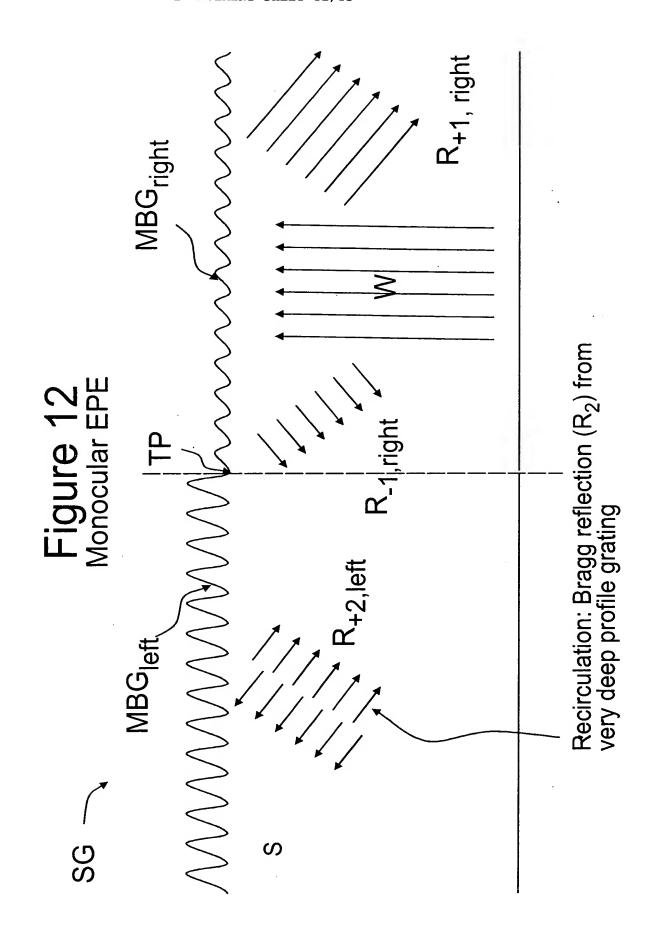




 $\eta = (0.5-k\theta)R_{+1}(-\theta)+(0.5+k\theta)R_{-1}(\theta)$ 

Theta / deg

Al coating



900 200 α<sup>+</sup> 400 Depth (nm) MBG<sub>right</sub> Figure 13b Theta=0 300 Coupling Efficiency as a function of grating depth 200 100 Optimum 9.0 0.1 0 900 200 Figure 13a Depth (nm) MBG<sub>left</sub>  $R_{+2}$ 400 300 Theta=46.4 200 100 0.8 9.0 Efficiency